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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/672,377	09/26/2003	Shigeaki Fukui	848075/0055	8545	
29619	7590 09/07/2006		EXAM	EXAMINER	
SCHULTE ROTH & ZABEL LLP ATTN: JOEL E. LUTZKER			ECHELMEYER, ALIX ELIZABETH		
919 THIRD A			ART UNIT	PAPER NUMBER	
NEW YORK, NY 10022			1745		
			D. TE MAIL ED 00/07/000		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
Office Action Summary		10/672,377	FUKUI, SHIGEAKI			
		Examiner	Art Unit			
		Alix Elizabeth Echelmeyer	1745			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 26 Se	eptember 2003.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	on of Claims					
4)🛛	○ Claim(s) <u>1-6</u> is/are pending in the application.					
4	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) 🗌	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-6</u> is/are rejected.					
•	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Application	on Papers					
9) 🔲 -	The specification is objected to by the Examine	г.				
10)🖾 -	Γhe drawing(s) filed on <u>9-26-03</u> is/are∶ a)⊠ ac	cepted or b) objected to by the	Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 2-27-04,5-19-04,7-6-04,6-9-05.	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Information Disclosure Statement

1. The Information Disclosure Statements (IDS) filed May 19, 2004 and July 7, 2004 have been considered but the references cited were also included in the IDS of February 27, 2004 and are considered redundant.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 3 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Masumoto et al. (US Pre-Grant Publication 2003/0180582)

Masumoto et al. teach a battery having a circuit substrate with a protection circuit element made of a positive temperature coefficient (PTC) material. The battery also includes a resin mold to cover the circuit substrate and provide electrical insulation (Figure 3B; [0017]).

With further regard to claims 3 and 5, Masumoto et al. teach that the protection element is covered by a resin mold package, providing heat insulation ([0018]). As for

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the sleeve requirement, the protection circuit element is surrounded by the insulation, thus the insulation acts as a sleeve.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 2, 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masumoto et al. in view of Fong et al. (US Pre-Grant Publication 2003/0124420).

 The teachings of Masumoto et al. as discussed above are incorporated herein.

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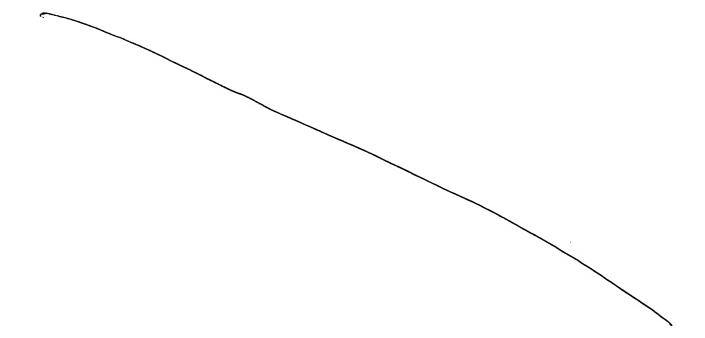
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Masumoto et al. teach a connection member to connect the circuit substrate to the battery terminals ([0019]). Masumoto et al. fail to teach that the connection members are made of metal plates.

Fong et al. teach the use of metal, especially copper, plates as terminal connectors since they provide high conductivity and low contact resistance ([0043]).

It would be desirable to use the metal plates of Fong et al. in the battery of Masumoto et al. since they provide high conductivity and low contact resistance.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use the metal plates of Fong et al. in the battery of Masumoto et al. in order to improve the performance of the battery through the high conductivity and low contact resistance of the plates as taught by Fong et al.



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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alix Elizabeth Echelmeyer whose telephone number is 571-272-1101. The examiner can normally be reached on Mon-Fri 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GREGG CANTELMO
PRIMARY EXAMINER

July
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Alix Elizabeth Echelmeyer Examiner Art Unit 1745

aee